

Abstract

5 A substrate for the controlled wetting of predetermined wetting sites with small fluid volumes comprises a support plate having a horizontal main surface for wetting with a fluid at predetermined wetting sites, and applied to the support plate, a flat protective layer that separates the main surface from the surroundings, the protective layer exhibiting, extending to the main surface of the support plate, vertical recesses that define the predetermined wetting sites on the support plate and include, leading to the vertical recesses, one or more supply channels having a reduced flat protective layer thickness for supplying the wetting fluid to the predetermined wetting sites. According to a further aspect, the protective layer includes one or more depressions having a reduced flat protective layer thickness for receiving a reservoir volume of wetting fluids and exhibits, disposed in the depressions, extending to the main surface of the support plate, vertical recesses that define the predetermined wetting sites on the support plate and that take up the wetting fluids in the respective depressions.